Congratulations on your purchase of this VTech product

NEED HELP?

Our representatives are here to help you with any questions concerning the operation of this product, available accessories, or any other related issues.

Call Toll Free: 1-800-595-9511 In Canada, Call: 1-800-267-7377

or visit our website at www. vtechphones. com

Important Safety Instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury, including the following:

- 1. Read and understand all instructions.
- 2. Follow all warnings and instructions marked on the product.
- Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use this product near water (for example, near a bath tub, kitchen sink or swimming pool).
- Do not place this product on an unstable surface, such as a table, shelf or stand.
 The product may fall, causing serious damage.
- 6. Slots and openings in the back or bottom of the base unit and handset are provided for ventilation. To protect them from overheating, these openings must not be blocked by placing the product on a soft surface such as a bed, sofa or rug. This product should never be placed near or over a radiator or heat register. This product should not be placed in any area where proper ventilation is not provided.
- 7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply in your home, consult your dealer or local power company.
- 8. Do not allow anything to rest on the power cord. Do not install this product where the cord may have anyone walking on it.
- 9. Never push objects of any kind into this product through slots in the base or handset as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
- 10. To reduce the risk of electric shock, do not disassemble this product, but take it to an authorized service facility. Opening or removing parts of the base or handset other than specified access doors may expose you to dangerous voltages or other risks. Incorrect reassembling can cause electric shock when the product is subsequently used.
- Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
- 12. Unplug this product from the wall outlet and refer servicing to an authorized service facility under the following conditions:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled onto the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage and often requires extensive work by an authorized technician to restore the product to normal operation.
 - E. If the product has been dropped and the base and/or handset has been damaged.
 - F. If the product exhibits a distinct change in performance.

Important Safety Instructions

- 13. Avoid using a telephone (other than cordless) during an electrical storm. There is a remote risk of electric shock from lightning.
- 14. Do not use the telephone to report a gas leak in the vicinity of the leak.
- 15. Only put the handset of your telephone next to your ear when it is in normal talk

Before You Begin

Enhanced 2.4GHz Technology - Dual band transmission combines the best of 2.4GHz and 900MHz technologies, providing enhanced performance over standard cordless telephones.

Before You Begin

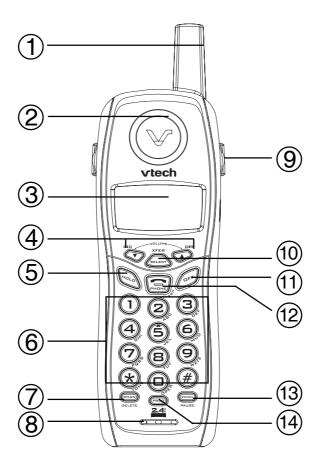
Parts Check List

- 1. Base Unit
- 2. Handsets
- 3. Handset Charger
- 4. Base AC Power Adaptor
- 5. Telephone Line Cord
- 6. Batteries
- 7. Belt Clips
- 8. User's Manual
- 9. Charger AC Power Adaptor
- 10. Base Wall Mounting Bracket

To purchase replacement batteries, visit us on the web at www.vtechphones.com or call VTech Communications, Inc. at 1-800-595-9511. In Canada, call VTech Telecommunications Canada Ltd. at 1-800-267-7377.



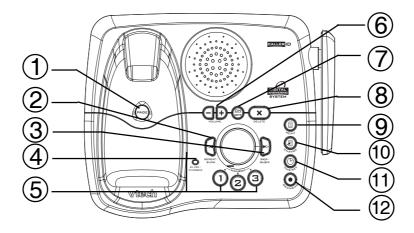
The Handset Layout

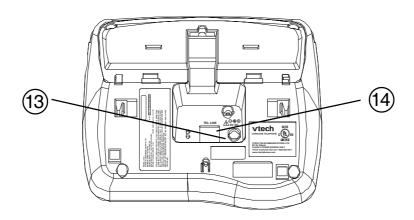


- Antenna
- 2. Earpiece
- 3. LCD
- up and down Arrow Keys
- Hold Key
- Dialing Keys (0-9,*,#) Chan/Delete Key

- 8. Microphone
- 9. Headset Jack
- 10. Sel/X-FER Key
- 11. Off Key
- 12. Phone/flash Key
- 13. Redial/Pause Key
- 14. Prog Key

The Base Unit Layout





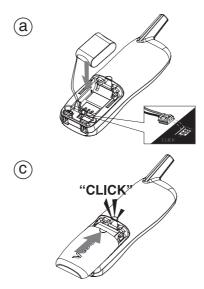
- 1. Page Key
- 2. Repeat/Slow Key
- 3. Skip/Quick Key
- 4. In Use/Charging Light
- 5. Mailbox Keys
- 6. Vol -/+ Keys
- 7. On/Off Key

- 8. Delete Key
- 9. Menu Key
- 10. Change Key
- 11.Time/Set Key
- 12. Rec/Memo Key
- 13. DC Connector Jack
- 14. Telephone Line Jack

Installation

Before You Install

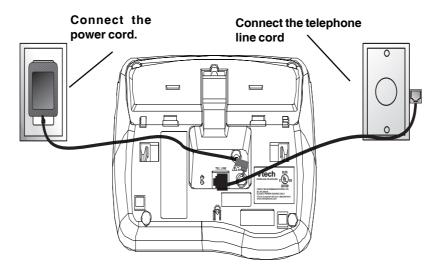
- 1. Choose a location for the base near an electrical outlet and a telephone jack. This phone requires a modular telephone jack and a standard electrical outlet (110v AC) not controlled by a wall switch.
- 2. Install the handset battery. Use only VTech batteries.
 - a). Align the two holes in the plug with the socket pins, then snap the plug into place.
 - b). Place the battery in the compartment with the wires in the lower right corner. Angle the top of the battery under the top claws first, then snap the bottom of the pack in. Place the wires under the guide, located below the battery.
 - c). Replace battery compartment cover.



- Plug the DC connectors to the base and charger separately. Plug the AC adaptors into electrical outlets separately. Connect the telephone line cord to the jack on the base, and the other end to a modular telephone jack, as illustrated below.
- 4. Place the handset in the base or charger. Charge the battery at least 15 hours for first charging.

Installation

Table/Desk Installation



1. Check for Dial Tone

After the batteries are charged, pick up the handset and press **PHONE**, you should hear a dial tone.

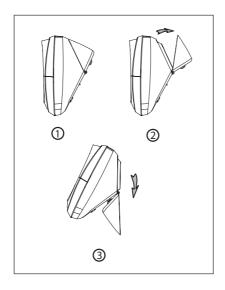
2. Set Time and Date

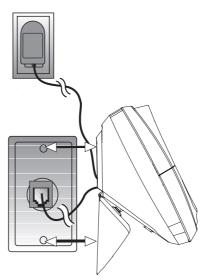
If you subscribe to caller ID service, the date and time will be set automatically with the first incoming call. If you do not have caller ID service, you can set the date and time manually.

- Press PROG, and then press ▼ or ▲ until DATE/TIME is displayed. Press SELECT.
- The month is flashing. Press ▼ or ▲ until the screen displays the correct month. Press SELECT.
- The day is flashing. Press ▼ or ▲ until the screen displays the correct day.
 Press SELECT.
- The hour is flashing. Press ▼ or ▲ until the screen displays the correct hour.
 Press SELECT.
- The minute is flashing. Press ▼ or ▲ until the screen displays the correct minute. Press SELECT.
- AM or PM is flashing. Press ▼ or ▲ to choose AM or PM. Press SELECT.

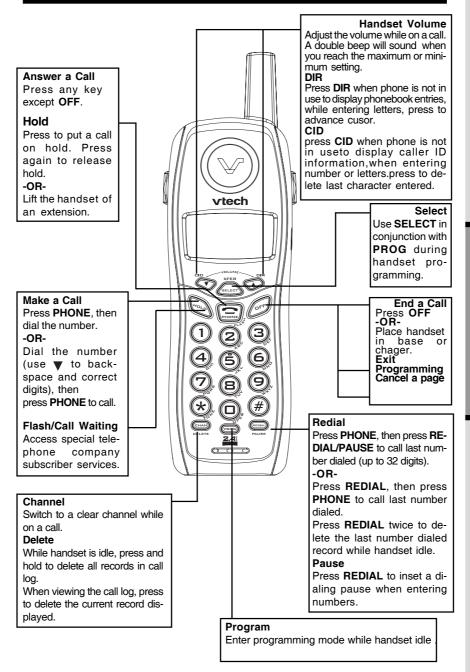
Installation

Your **t 2450** base unit is designed to mount on a standard telephone wall plate. Wall mounting is optional.



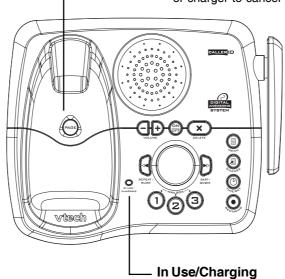


- 1. Open the hinged wall mount bracket on the underside of the base, then swivel it down and lock it into place as shown in the diagram above.
- 2. Run the power and telephone cords through the slot, then connect them to the jacks located on the underside of the base.
- 3. Plug the AC adapter into an electrical outlet. If the battery has not been previously charged, place the handset in the base, and allow it to charge for 15 hours (or overnight). Connect the telephone line cord to the wall jack.
- 4. Mount the base on the wall. Position the base unit so the mounting studs will fit into the holes on the wall mount bracket. Slide the base unit down on the mounting studs until it locks into place.



Page

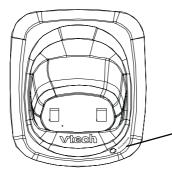
Press to page the handset for up to 60 seconds. Press again or, press **OFF** on handset or place handset in base or charger to cancel the page.



- ... 000, 011a. g...g
- •Flashes in unison with the ring of an incoming call.
- •Flashes slowly when the handset is in use.
- •Flashes rapidly when a call is on hold.
- •Glows steadily when the handset is charging.

Charging

Glows steadily when the handset is charging.



Handset Ringer Style/Battery Save

You can select from four different handset ringer styles, or turn the ringer off and extend the battery life.

- 1. Make sure the handset is idle.
- 2. Press PROG.
- 3. Press ▲ until the screen displays RINGER: and the current setting.
- Press SELECT. The current setting blinks, and you will hear a sample of the ring.
- Press ▼ or ▲ to select RINGER:1, 2, 3, 4 or OFF. You will hear a sample of each ring.
- 6. Press SELECT to choose the displayed ringer setting.

Temporary Tone Dialing

If you have dial pulse (rotary) service only, you can change from pulse to touch tone dialing during a call by pressing *TONE. This is useful if you need to send touch tone signals for access to telephone banking or long distance services.

- 1. Dial the number.
- 2. Press *TONE. Buttons pressed after this will send touch tone signals.
- 3. After you hang up, the phone automatically returns to dial pulse service.

Call Forward

An external call can be forwarded from one handset to the other handset by following these steps.

1. While on a call, press **SELECT** to forward the call to the other handset (HS2). The first handset (HS1) will show:

HS2 will show:



TRANSFERING

NOTE: If HS2 cannot be found, HS1will generate a sad tone and continue the call automatically.

Before HS2 answers, HS1 can press **PHONE** to cancel the forward function and continue the external call.

Press any key except OFF on HS2 to answer the forwarded call. HS1 will return to the idle screen.

NOTE: If HS2 does not respond within 30 seconds, HS1 will start ringing until **PHONE** is pressed. If the returned call is not answered within another 30 seconds, the external call will end automatically.

Display Screen Messages

Screen Displays:	When:
** RINGING **	There is a call coming in.
CONNECTING	The handset is waiting for a dial tone.
PHONE ON	The handset is in use.
SCANNING	The handset is changing to more clear channel.
** PAGING **	The base is paging the handset.
HOLD	There is a call on hold.
BATTERY LOW	The battery needs to be recharged.
NO CONNECT	 When one handset is on a call, press PHONE on the other handset. The other handset will display NO CONNECT with a sad tone. When the base power is off, press PHONE. The screen will display NO CONNECT with a sad tone. The Handset is Out-of-range, if an attempt to dial is failed.

Telephone Memory

You can store up to nine telephone numbers with names (up to 15 characters, 24 digits each location) you dial frequently into the speed dial memory locations you assign (1-9) in each handset. These numbers can be dialed only by pressing two buttons.

You can also store telephone numbers with names alphabetically in the directory. See **Telephone Directory** for instructions.

- **NOTES:** 1. The entries you store in speed dial memory will be marked with 01 through 09 and also stored in the directory.
 - 2. Press **OFF** at any time to exit the Speed Dial memory.

Store a Number/Name in Memory:

- 1. Press **PROG**. Then press ▲ until the screen displays **SPEED DIAL**.
- 2. Press SELECT. The screen displays ENTER 1-9.
- Press the key (1-9) to assign the memory location where this number will be stored. The screen displays ENTER NAME.

NOTE: Your new entry will be stored in place of the old and will delete the former entry. Take caution to not save over entries you do not wish to delete from memory.

Using the chart below, enter up to 15 characters for the name you're storing.
 Use ▼ to backspace and make corrections; use ▲ to add a space.

	Presses
Dial Key	1 2 3 4 5 6
1:	1
2:	A B C 2
3:	D E F 3
4:	G H I 4
5:	J K L 5
6:	M N O 6
7 :	P Q R S 7
8:	T U V 8
9:	W X Y Z 9
0:	0
*:	*
#:	& ' , - . #

- When you finish entering the name, press SELECT or PROG. The screen displays ENTER NUMBER.
- Enter the telephone number. Use ▼ to backspace and make corrections.
 Press REDIAL/PAUSE to add pause if necessary.

Telephone Memory

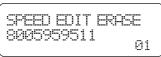
— OR—

Press **REDIAL/PAUSE** to display the last number (up to 24 digits long) dialed from this phone.

- Press SELECT or PROG to store your entry. The screen displays DISTINCT RING? and the current setting.
- 8. Press ▲ or ▲ to change the setting. Choose Y (yes) if you wish the phone to alert you that the calls from this number by a distinctive ringer after the first ring. Choose N for a normal ringer.
- Press SELECT or PROG to confirm your selection. If you chose Y in Step 8, a
 will be displayed with the entry.

Edit a Number/Name Stored in Memory

- 1. Press and hold the memory location key (1-9) of the entry you wish to edit.
- When the screen displays the entry you want to edit, press SELECT. Then
 press ▲ until EDIT flashes.



- Press SELECT. The screen displays the name and number. The flashing cursor appears at the end of the name. Use ▼ , ▲ and the dial pad keys to edit the name. Press SELECT to move on to edit the number. Use ▼ to backspace and make corrections. Press SELECT to move on to edit the distinctive ring setting.
- 4. Press **SELECT** to save the edited information.

Delete a Number/Name Stored in Memory

- 1. Press and hold the memory location key (1-9) of the entry you wish to delete.
- When the screen displays the entry you want to delete, press SELECT. Then
 press

 until ERASE flashes.



- 3. Press **SELECT**. The screen displays **ERASE NO YES** and the number. The current choice flashes.
- 4. Press ▲ until YES flashes.
- 5. Press **SELECT**. You will hear a confirmation beep.

Dial a Memory Number

- 1. Press and hold the memory location key (1-9) of the entry you wish to dial.
- 2. Press **PHONE** to dial the displayed memory number.

Telephone Memory

Reassign Locations in Memory

- 1. Press and hold the memory location key (1-9) of the entry you wish to reassign.
- When the screen displays the entry you want to reassign, press SELECT.
 Then press ▲ until SPEED flashes.



- 3. Press SELECT. The screen displays ENTER 1-9.
- 4. Press the keys (1-9) to reassign this entry into another memory location. You will hear a confirmation beep.

Telephone Directory

Your t 2450 can store 30 (including the nine speed dial entries) telephone numbers with names (up to 15 characters for the name and 24 digits for the number in each location) in each handset.

NOTE: Press **OFF** at any time to exit the directory.

Store a Number/Name in the Directory

- 1. Press PROG. The screen displays DIRECTORY.
- 2. Press **SELECT**. The screen displays **ENTER NAME**.
- 3. Using the chart below, enter up to 15 characters for the name you're storing with the number. Use ▼ to backspace and make corrections; use ▲ to advance and add a space.

	Presses
Dial Key	1 2 3 4 5 6
1:	1
2:	A B C 2
3:	D E F 3
4:	G H I 4
5:	J K L 5
6:	M N O 6
7 :	P Q R S 7
8:	T U V 8
9:	W X Y Z 9
0:	0
*:	*
#:	& ' , - . #

- 4. When you finish entering the name, press **SELECT** or **PROG**. The screen displays **ENTER NUMBER**.
- Enter the telephone number. Use ▼ to backspace and make a correction.
 Press REDIAL/PAUSE to add a pause if necessary.

-OR-

Press **REDIAL/PAUSE** to display the last number (up to 24 digits) dialed from this handset.

- Press SELECT or PROG. The screen displays DISTINCT RING? and the current setting.
- 7. Press ▼ or ▲ to change the setting. Choose Y (for yes) if you wish the phone

Telephone Directory

to alert you that the calls from this number by changing to a distinctive ringer after the first ring. Choose **N** for a normal ringer.

8. Press **SELECT** or **PROG** to confirm your selection. If you chose **Y** in **Step 7**, a will be displayed with the directory entry.

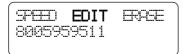
NOTE: When the memory is full the screen will display **MEMORY FULL**, an error tone sounds and you will not be able to store a new number until you delete a stored number to make room for another entry.

Edit a Number/Name Stored in the Directory

- Press ▲ (DIR). The screen displays DIRECTORY.
- Press ▼ or ▲ to scroll alphabetically through entries stored in directory.
 OR —

Press the dial pad key for the first letter of the entry you want to edit.

3. When the screen displays the entry you want to edit, press **SELECT**. Then press ▲ until **EDIT** flashes.



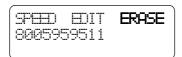
- 4. Press SELECT. The screen displays the name and number. The cursor appears at the end of the name. Use ▼ , ▲ and the dial pad keys to edit the name. Press SELECT to confirm and move on to edit the number. Use ▼ to backspace and make corrections. Press SELECT to confirm and move to edit the distinctive ring setting.
- 5. Press **SELECT** to save the edited information.

Delete a Number/Name Stored in the Directory

- 1. Press ▲ (DIR). The screen displays DIRECTORY.
- Press ▼ or ▲ to scroll alphabetically through entries stored in directory.
 OR—

Press the dial pad key for the first letter of the entry you want to delete.

When the screen displays the entry you want to delete, press SELECT.
 Then press ▲ until ERASE flashes.



- Press SELECT. The screen displays ERASE NO YES and the number. The current choice flashes.
- 5. Press ▲ until YES flashes.
- 6. Press **SELECT**. You'll hear a confirmation beep.

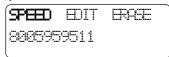
Telephone Directory

Move a Number/Name to the Memory

- Press ▲ (DIR). The screen displays DIRECTORY.
- Press ▼ or ▲ to scroll alphabetically through entries stored in directory.
 OR—

Press the dial pad key for the first letter of the entry you want to move.

When the screen displays the entry you want to move, press SELECT. Then
press ▲ until SPEED flashes.



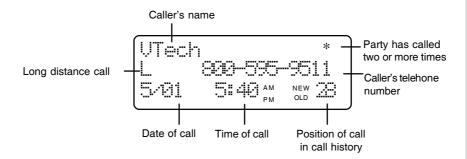
- 4. Press **SELECT**. The screen displays **ENTER 1-9**.
- Press the key (1-9) to move this entry from the normal directory to the speed dial memory and assign the memory location. You'll hear a confirmation beep. A memory location number (01-09) will be displayed with this entry.

Dial a Number from the Directory

- Press ▲ (DIR). The screen displays DIRECTORY.
- Press ▼ or ▲ to scroll alphabetically through entries stored in directory.
 OR—

Press the dial pad key for the first letter of the entry you want to dial. When the screen displays the entry you want to dial, press **PHONE**.

Caller ID Operation



About Call History (Caller ID)

Your **t 2450** can store up to 90 calls in its caller ID memory. When the memory is full, the oldest call will be deleted to make room for new incoming call information. For each call that comes in, the screen displays the following information between the first and second rings:

- Your callers name (up to 15 letters are sent by your telephone company).
- The callers area code and telephone number.
- The time and date of the call.
- The repeat tag (*) in the upper right corner, indicating the party has called more than once.

If you answer a call before the information appears on the screen, it will not be stored in the call history.

NOTE: Press OFF at any time to exit call history.

Review Call History

- 1. Press ▼ (CID) to view call history.
- 2. Use ▼ and ▲ to scroll through records in call history.

Delete Records from Call History

Delete a Specific Call:

- 1. Locate the record you want to delete from call history.
- 2. Press **DELETE**. You'll hear a confirmation beep.

Delete All Calls:

- With the Handset in idle, press and hold DELETE. The screen displays ERASE ALL NO YES. The current choice flashes.
- 2. Press ▲ until YES flashes.
- 3. Press SELECT. You'll hear a confirmation beep.

Caller ID Operation

Dial a Displayed Number

- 1. Locate the record in call history that you want to dial.
- 2. If you wish to change how the number is dialed, press #. The screen displays any alternate dialing sequences available for this call (area code + number; 1 + area code + number; number only; 1+ number).
- 3. Press **SELECT**. Press ▲ until **DIAL** flashes.



4. Press **SELECT** again. The number is automatically dialed.

— OR—

When the number is correctly displayed for dialing, you want to dial, press **PHONE**.

Caller ID Operation

Store a Call History Record in the Directory

- 1. Locate the record in the call history you want to store in the directory.
- 2. If you wish to change how the number is stored, press #. The screen displays any alternate dialing sequences available for this call (area code + number; 1 + area code + number; number only; 1+ number).
- 3. Press SELECT, then press ▲ until PROGRAM flashes.



4. Press SELECT three times. The screen displays:

- 5. Press ▼ or ▲ to select Y or N for distinctive ringer.
- 6. Press **SELECT**. You will hear a confirmation beep. If you choose **Y** in step 5, a will be displayed with the directory entry.

Display Screen Messages

Screen Displays:	When:
PRIVATE	The other party is blocking name and/or number information.
UNKNOWN	Your phone company is unable to receive information about this caller's name and/or number.
* (after the name)	This caller has called you more than once.

Audible Indicators

Your t 2450 gives you voice prompts for feature operations and voice confirmations when you press a button or complete an operation.

Setting the Clock

- 1. Make sure the answering system is ON.
- Press TIME/SET. The system announces the clock setting, then announces: "To Set Day and Time, press TIME/SET."
- 3. Press TIME/SET.
- 4. Press CHANGE until the system announces the correct day, then press TIME/SET.
- 5. Press CHANGE until the system announces the correct hour, then press TIME/SET.
- 6. Press CHANGE until the system announces the correct minute, then press TIME/SET.
- Press CHANGE until the system announces the correct year, then press TIME/SET
 The system announces the current clock setting.

NOTES

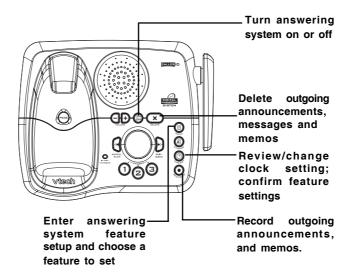
- You can choose to set the time manually, or you can allow it to be set automatcally
 with incoming caller ID information. The time will be set automatically only if you
 subscribe to caller ID service provided by your local telephone company.
- To advance the minutes or years by increment of 10, press and hold CHANGE. You can select the year from 2000 to 2039.

About Mailboxes

This answering system has three voice mailboxes. Callers using a touch tone phone can select the mailbox in which their messages will be recorded by pressing 1, 2 or 3. If the caller does not select a specific mailbox, their message will be recorded in Mailbox 1.

About Announcements

- You can record two different announcements one for normal answering and one for when you've set the system to play an announcement only.
- Use normal answering when you want the system to record callers' messages. Use announce only when you want to give information to callers without accepting messages.
- If you choose not to record an announcement, the system answers with a prerecorded announcement.
- The normal answering pre-recorded announcement says: Hello, I am unable to answer your call right now. Please leave your name, number and a message after the tone." The announce only pre-recorded announcement says: "Hello, I am unable to answer your call right now. Please call again. Thank you."
- By setting announce Only to ON or OFF, you decide which announcement your
 callers will hear when the system answers a call (the system comes set for normal
 answering, with announce Only turned OFF). See Set, located in the Feature
 Summary(page 26) chart later in this section, to change your announcement selection.



Record Your Announcement

NOTE: If you have assigned different mailboxes to different people, be sure to tell callers in your announcement to press **1**, **2**, or **3** to leave a message in the appropriate mailbox. For example: "Thank you for calling. To leave a message for Bob, press 1 now. To leave a message for Sue, press 2 now. To leave a message for Elmo, press 3 now. Or, wait for the beep, and leave your message."

- 1. Press MENU until you hear "Record outgoing message."
- Press REC/MEMO. After you hear "Now recording" followed by a beep, speak toward the base to record an announcement up to 90 seconds long.
- Press any MAILBOX button to stop recording. The system plays back your recorded message.

To Review Your Announcement at Any Time

- 1. Press MENU until you hear "Record outgoing Message."
- 2. Press any MAILBOX button.

To Delete Your Announcement

Press **DELETE** during announcement playback. The system will use the prerecorded announcement until you record a new one.

Setting Up Your Answering System

You can set up one feature at a time, or you can set up a feature and then move on to set up another feature.

- 1. Make sure the answering system is **ON**.
- Press MENU until the system announces the feature you want to set. Refer to the Feature Summary below for a description of the features and your choices.
- 3. Press **CHANGE** until the system announces the desired setting.
- 4. Press **TIME/SET** to confirm your selection.
- Press MENU to move on to the next feature, or press a MAILBOX button to exit Feature Setup.

Feature Summary

System announces:	Description/directions:
"Set Security Code" 50*	Use CHANGE to choose the remote access code you will use to access features and functions of the answering system from a touch tone phone. You can select any two digit code, from 40 to 99.
"Set Audible Message Alert " Off * On	When message alert is turned on, the base beeps once every 10 seconds when new messages have been received.
"Set Announce Only" Off * On	When you turn Announce Only On , callers hear your announcement, but cannot leave a message.
"Set Base Ringer" On * Off	Turn the base ringer on or off.
"Set Number of Rings" 2 4 * 6 Toll Saver	Choose how many times the phone will ring before the system answers a call. With toll saver active, the system answers after two rings when you have new messages and after four rings when you have no new messages.

NOTES

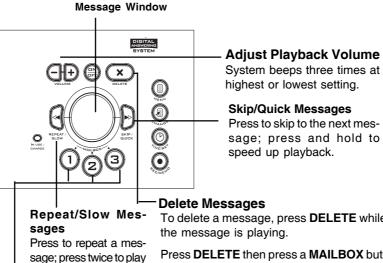
- To advance the remote access code by increments of 10, press and hold CHANGE.
- 2. You can exit feature setup at any time by pressing a MAILBOX button.

Listen to, Save & Delete Messages

The system automatically saves your messages until you delete them, and can store approximately 15 minutes of messages, memos, and announcements (up to a maximum of 99 messages). Your caller can leave a message of up to four minutes in length.

A MAILBOX key will flash to alert you to new, unplayed messages. If all messages in a mailbox have been reviewed, the key will glow steadily. A mailbox containing both old and new messages will play only the new messages first. After all new messages are played, press the MAILBOX key again to hear all messages.

Before playing a message, the system announces the day and time it was received. While the message plays, the message window displays the number of the message. After playing the last message in a mailbox, the system announces "End of messages." If the system has less than five minutes of recording time left, it announces remaining time.



Play Messages

Press to play messages in a mailbox. Press again to stop playback.

To delete a message, press **DELETE** while

Press DELETE then press a MAILBOX button to delete all old messages in that mailbox.

You cannot delete a message until it's been reviewed; deleted messages cannot be recovered.

the previous message;

press and hold to slow down playback.

Call Screening/Intercept

- Make sure the answering system is ON, and set the message playback volume is set above level one so you can hear the caller's message.
- 2. If you decide to take the call, press **PHONE** on the handset.
- If you pick up an extension phone during the announcement and the announcement does not stop right away, press and release the telephone switchhook.

Record a Memo

You can record a memo up to four minutes long, which is stored as an incoming message.

- 1. Press REC/MEMO.
- Press a MAILBOX button to select a mailbox for the memo. After the beep, speak toward the base. The message window displays the length of your memo.
- 3. To stop recording, press the MAILBOX button again.

Message Window Display

Window Display: when:	
0	No messages in any mailbox.
1 - 99	Total number of messages in all mailboxes, or current message number during message playback.
0 - 99 ↔ F	Memory is full, or total number of messages is 99.
1 to 99 (Counting)	Duration of memo recording.
99 (Flashing)	Length of recording is more than 99 seconds.
1 - 8 (On steady for one second)	Indicates volume level selected when VOL - or VOL + is pressed.
40 - 99	Current remote access code while setting.
А	Announce only mode.
ON or OFF (Steady for one second)	Displayed when any setting is changed from on or off.
CL ↔ normal display	Clock needs to be set.
	System is answering a call or is in remote operation.
(Flashing)	System is in programming mode or initializing.

Connect with the Answering System From a Remote Location

You can access many features of this system remotely from a touch tone phone.

- 1. Dial your telephone number.
- When the system answers, enter your remote access code (preset to 50).
 The system beeps once and then announces the number of new messages.
- 3. Enter a remote command (see Remote Access Commands).
- 4. Press *0 to exit remote operation.

Voice Menu

The system has voice prompts to help you with remote operation. Press *5 to hear the menu while remotely connected to the answering system.

Remote Access Commands

Function:	Command:
Play messages in a mailbox	Press #, then the appropriate mailbox a mailbox number (1, 2 or 3). The system plays new messages. If there are no new messages, the system plays old messages.
Repeat a message	Press #4 while message is playing; press #4#4 to back up to previous message.
Skip a message	Press #6 while message is playing to advance to the next message.
Stop	Press #5.
Save messages	Hang up.
Delete message	Press #9 while message is playing.
Review announcement	Press #7; system plays announcement, then beeps.
Record announcement	Press *7; after beep, record announcement, press #5 to stop. System plays back announcement.
Record memo	Press *8, then mailbox number where you want memo recorded; speak after the beep; press #5 when finished.
End remote access call	Press *0.

Remote Access Commands (continued)

Function:	Command:
Turn system off	Press #0; the system announces, "Answering machine off." Press #0 again to turn the system back on.
Turn system on	When system is off, it answers after 10 rings and announces, "Please enter your security code." Enter your remote access code.

NOTE: If no key is pressed within 10 seconds of entering remote access, the voice menu will be announced. After the voice menu announcement, if no key is pressed within 20 seconds, the remote access call will automatically end

Batteries

Battery Care and Maintenance

- This battery should remain charged up to seven days with the ringer turned on and up to no limited with the ringer off. A fully charged battery provides an average talk time of about six hours.
- The battery needs charging when:
 - A new battery is installed in the handset.
 - The phone beeps twice every five seconds.
 - The screen displays BATTERY LOW and the low battery icon.
- Place the handset in the base or carger so the CHARGING light turns on. The battery is typically fully charged in 10 hours.
- You can keep the battery fully charged by returning the handset to the base or charger after each use.
- If you repeatedly get a low battery indicator, even after charging overnight, the battery should be replaced.

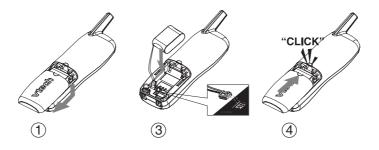


CAUTION: To reduce the risk of fire or injury to persons or damage to the telephone, read and follow these instructions carefully:

Charge the battery provided with or identified for use with this product only in accordance with the instructions and limitations specified in this user's manual.

Replacing the Handset Battery

- Remove the battery compartment cover on the handset by pressing on the indentation and sliding the cover downward.
- 2. Lift out the old battery and disconnect.
- Align the two holes in the new battery's plug with the socket pins, and snap the plug into place. Snap the battery in the compartment, as described in the Installation section.
- 4. Replace the cover by sliding it up into place.
- 5. The new battery must be charged before using the phone. Place the handset in the base or charger and allow it to charge for at least 12 hours the first charge. The telephone might operate before that, but for best performance, let the battery charge fully.



Headset Operation

Headset Jack

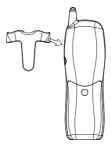
You can use this telephone handsfree when you install any VTech 2.5mm headset, purchased separately.

Plug the headset into the jack located on the right side of the handset (under the small rubber flap). Do not force the connection, but make sure the plug fits securely.

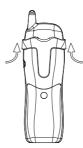


Relt Clin

Attach the belt clip to the cordless handset (optional).







In Case of Difficulty

If you have difficulties in operating your phone, the suggestions below should solve the problem. If you still have difficulties after trying these suggestions, call VTech Communications at 1-800-595-9511. In Canada, call VTech Telecommunications Canada Ltd. at 1-800-267-7377.

The phone doesn't work at all

- Make sure the power cord is plugged in.
- Make sure the telephone line cord is plugged firmly into the base unit and the telephone wall jack.
- Make sure the battery is properly charged. If you get a BATTERY LOW message or indication, the battery needs charging.

No dial tone

- First check all the suggestions above.
- If you still don't hear a dial tone, disconnect the base unit from the telephone
 jack and connect a different phone. If there is no dial tone on that phone either,
 the problem is in your wiring or local service. Contact your local telephone
 company.

You get noise, static, or a weak signal even when you're near the base unit

 Household appliances plugged into the same circuit as the base unit can sometimes cause interference. Try to move the appliance or the base unit to another outlet.

You get noise, static, or a weak signal when you are away from the base unit

- You may be out of range. Either move closer to the base, or relocate the base unit.
- The layout of your home may be limiting the range. Try to move the base unit to another position.

The handset does not ring when you receive a call

- Make sure you have the ringers activated. Refer to the section(s) on Handset Ringer Style/ Battery Save in this user's manual.
- Make sure the telephone cord is plugged firmly into the base unit and the telephone jack. Make sure the power cord is plugged in.
- You may be too far from the base unit.
- You may have too many extension phones on your telephone line to allow all
 of them to ring. Try to unplug some of the other phones.

You hear other calls while using your phone

 Disconnect your base unit from the telephone jack, and plug in a regular telephone. If you still hear other calls, the problem is probably in your wiring or local service. Call your local telephone company.

Additional Information

In Case of Difficulty

You hear noise in the handset, and none of the keys or buttons work

Make sure the power cord is plugged in.

Common cure for electronic equipment

If the unit does not seem to be responding normally, then try putting the handset in its base. If it does not seem to respond, do the following (in the order listed):

- 1. Disconnect the power to the base.
- Disconnect the handset battery.
- Wait a few minutes.
- Connect power to the base.
- 5. Reinstall the battery.
- Wait for the handset to re-establish its link with the base. To be safe, allow up to one minute for this to take place.

Your answering system is not recording messages

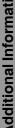
- Make sure system is turned **ON** (the **ON/OFF** key is illuminated).
- Make sure Announce Only feature is set to OFF.

You cannot hear recorded messages

Using the base volume control, raise the volume to a comfortable listening level.

CL is flashing in the base message window display

You need to set the day and time. Refer to the section on Set the Clock in this user's manual.



Maintenance

Taking Care Of Your Telephone

Your cordless telephone contains sophisticated electronic parts, so it must be treated with care.

Avoid rough treatment

Place the handset down gently. Save the original packing materials to protect your telephone if you ever need to ship it.

Avoid water

Your telephone can be damaged if it gets wet. Do not use the handset outdoors in the rain, or handle it with wet hands. Do not install your base unit near a sink, bathtub or shower.

Electrical storms

Electrical storms can sometimes cause power surges harmful to electronic equipment. For your own safety, use caution when using electric appliances during storms.

Cleaning your telephone

Your telephone has a durable plastic casing that should retain its luster for many years. Clean it only with a soft cloth slightly dampened with water or a mild soap. Do not use excess water or cleaning solvents of any kind.

Remember that electrical appliances can cause serious injury if used when you are wet or standing in water. If your Base Unit should fall into water, DO NOT RETRIEVE IT UNTIL YOU UNPLUG THE POWER CORD AND TELEPHONE LINE CORDS FROM THE WALL. Then pull the unit out by the unplugged cords.

Additional Information

Warranty Statement

What does this limited warranty cover?

• The manufacturer of this VTech product, VTech Communications, warrants to the holder of a valid proof of purchase ("Consumer" or "you") that the product and all accessories provided by VTech in the sales package ("Product") are free from material defects in material and workmanship, pursuant to the following terms and conditions, when installed and used normally and in accordance with operation instructions. This limited warranty extends only to the Consumer for Products purchased and used in the United States of America

What will VTech Communications do if the Product is not free from material defects in materials and workmanship during the limited warranty period ("Materially Defective Product")?

During the limited warranty period, VTech's authorized service representative
will repair or replace at VTech's option, without charge, a Materially Defective Product. If we repair this product, we may use new or refurbished replacement parts. If we choose to replace this product, we may replace it with
a new or refurbished product of the same or similar design. VTech will return
repaired or replacement products to you in working condition. VTech will
retain defective parts, modules, or equipment. Repair or replacement of
Product, at VTech's option, is your exclusive remedy. You should expect the
repair or replacement to take approximately 30 days.

How long is the limited warranty period?

The limited warranty period for the product extends for ONE (1) YEAR from the
date of purchase if we repair or replace a Materially Defective Product under
the terms of this limited warranty. This limited warranty also applies to repaired or replacement Products for a period of either (a) 90 days from the
date the repaired or replacement Product is shipped to you or (b) the time
remaining on the original one-year warranty; whichever is longer.

What is not covered by this limited warranty?

This limited warranty does not cover:

- Product that has been subjected to misuse, accident, shipping or other physical damage, improper installation, abnormal operation or handling, neglect, inundation, fire, water or other liquid intrusion; or
- Product that has been damaged due to repair, alteration or modification by anyone other than an authorized service representative of VTech; or
- Product to the extent that the problem experienced is caused by signal conditions, network reliability or cable or antenna systems; or
- 4. Product to the extent that the problem is caused by use with non-VTech electrical accessories; or
- Product whose warranty/quality stickers, Product serial numbers plates or electronic serial numbers have been removed, altered or rendered illegible; or
- 6. Product purchased, used, serviced or shipped for repair from outside the United States, or used for commercial or institutional purposes (including

Warranty Statement

but not limited to Products used for rental purposes); or

- 7. Product returned without valid proof of purchase (see 2 below); or
- Charges for installation or set up, adjustment of customer controls and installation or repair of systems outside the unit.

How do you get warranty service?

- To obtain warranty service in the United States of America, call 1-800-595-9511 for instructions regarding where to return the Product. Before calling for service, please check the user's manual. A check of the Product controls and features may save you a service call.
- Except as provided by applicable law, you assume the risk of loss or damage during transit and transportation and are responsible for delivery or handling charges incurred in the transport of Product(s) to the service location.
 VTech will return repaired or replaced product under this limited warranty to you, transportation, delivery or handling charges prepaid.
 VTech assumes no risk for damage or loss of the Product in transit.
- If the Product failure is not covered by this limited warranty, or proof of purchase
 does not meet the terms of this limited warranty, VTech will notify you and will
 request that you authorize the cost of repair prior to any further repair activity.
 You must pay for the cost of repair and return shipping costs for the repair of
 Products that are not covered by this limited warranty.

What must you return with the Product to get warranty service?

- Return the entire original package and contents including the Product to the VTech service location along with a description of the malfunction or difficulty;
- 2. Include "valid proof of purchase" (sales receipt) identifying the Product purchased (Product model) and the date of purchase or receipt; and
- Provide your name, complete and correct mailing address, and telephone number.

Other Limitations

 This warranty is the complete and exclusive agreement between you and VTech. It supersedes all other written or oral communications related to this Product. VTech provides no other warranties for this product. The warranty exclusively describes all of VTech's responsibilities regarding the product.

There are no other express warranties. No one is authorized to make modifications to this limited warranty and you should not rely on any such modification.

State Law Rights: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Limitations: Implied warranties, including those of fitness for a particular purpose and merchantability (an unwritten warranty that the product is fit for ordinary use) are limited to one year from date of purchase. Some states do

Warranty Statement

- not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
- In no event shall VTech be liable for any indirect, special, incidental, consequential, or similar damages (including, but not limited to lost profits or revenue, inability to use the product, or other associated equipment, the cost of substitute equipment, and claims by third parties) resulting from the use of this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This equipment complies with Parts 15 of the Federal Communications Commission (FCC) rules for the United States. It also complies with regulations RSS210 and CS-03 of Industry and Science Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

A label is located on the underside of the Base Unit containing either the FCC registration number and Ringer Equivalence Number (REN) or the IC registration number and Load Number. You must, upon request, provide this information to your local telephone company.

This equipment is compatible with inductively coupled hearing aids. Should you experience trouble with this telephone equipment, please contact:

VTech Communications, Inc.

Customer Service at 1-800-595-9511. In Canada, call VTech Telecommunications Canada Ltd., at 1-800-267-7377.

For repair/warranty information, the telephone company may ask you to disconnect this equipment from the line network until the problem has been corrected.

FCC Part 15

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The equipment has been tested and found to comply with part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet or on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Part 68 and ACTA

If this equipment was approved for connection to the telephone network prior to July 23, 2001, it complies with Part 68 of the Federal Communications Commission (FCC) rules. If the equipment was approved after that date, it complies with the Part 68 rules and with Technical Requirements for Connection of Equipment to the Telephone Network adopted by the Administrative Council for Terminal Attachments (ACTA). We are required to provide you with the following information.

1. Product identifier and REN information

The label on the back or bottom of this equipment contains, among other things, an identifier indicating product approval and the Ringer Equivalence Number (REN). This information must be provided to your local telephone company upon request. For equipment approved prior to July 23, 2001, the product identifier is preceded by the phrase "FCC Reg No." and the REN is listed separately. For equipment approved after that date, the product identifier is preceded by "US" and a colon (:), and the REN is encoded in the product identifier without a decimal point as the sixth and seventh characters following the colon. For example, the product identifier US:AAAEQ03T123XYZ would indicate an REN of 0.3.

The REN is used to determine how many devices you may connect to your telephone line and still have them ring when you are called. In most, but not all areas, the sum of all RENs should be five (5.0) or less. For more information, please contact your local telephone company.

2. Connection and use with the nationwide telephone network

The plug and jack used to connect this equipment to the premises wiring and the telephone network must comply with the applicable Part 68 rules and technical requirements adopted by ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. An RJ11 jack should normally be used for connecting to a single line and an RJ14 jack for two lines. See Installation Instructions in the user's manual. This equipment may not be used with Coin Telephone Lines or with Party Lines. If you have specially wired alarm dialing equipment connected to your telephone line, ensure the connection of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

3. Repair instructions

If this equipment is malfunctioning, it must be unplugged from the modular jack until the problem has been corrected. Repairs to this telephone equipment can only be made by the manufacturer or its authorized agents. For repair procedures, follow the instructions outlined under the Limited Warranty.

4. Rights of the telephone company

If this equipment is causing harm to the telephone network, the telephone company may temporarily discontinue your telephone service. The telephone company is required to notify you before interrupting service. If advance notice is not practical, you will be notified as soon as possible. You will be given the opportunity to correct the problem and the telephone company is required to inform you of your right to file a complaint with the FCC. Your telephone company may make changes in its facilities, equipment, operation, or procedures that could affect the proper functioning of this product. The telephone company is required to notify you if such changes are planned.

Hearing aid compatibility

If this product is equipped with a corded or cordless handset, it is hearing aid compatible.

6. Programming/testing of emergency numbers

If this product has memory dialing locations, you may choose to store police, fire department and emergency medical service telephone numbers in these locations. If you do, please keep three things in mind:

- a We recommend that you also write the telephone number on the directory card, so that you can still dial the emergency number manually if the memory dialing feature doesn't work.
- b This feature is provided only as a convenience, and the manufacturer assumes no responsibility for customer reliance upon the memory feature.
- c Testing the emergency telephone numbers you have stored is not recommended. However, if you do make a call to an emergency number:
 - You must remain on the line and briefly explain the reason for the call before hanging up.
 - Programming/testing of emergency numbers should be performed during off-peak hours, such as in the early morning or late evening, when the emergency services tend to be less busy.

IC (Industry Canada)

This telephone is registered for use in Canada.

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

Notice: This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

Notice: The Ringer Equivalence Number (REN) for this terminal equipment is 0.1. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of services in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.

Your telephone is designed to operate at the maximum power allowed by the FCC and IC. This means your Handset and Base Unit can communicate only over a certain distance - which will depend on the location of the Base Unit and Handset, weather, and the construction and layout of your home or office.

The RBRC[®] Seal



The RBRC® Seal on the nickel-cadmium battery indicates that VTech Communications, Inc. is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful lives, when taken out of service within the United States and Canada.

The RBRC® program provides a convenient alternative to placing used nickelcadmium batteries into the trash or municipal waste, which may be illegal in your

VTech's participation in **RBRC®** makes it easy for you to drop off the used battery at local retailers participating in the RBRC® program or at authorized VTech product service centers. Please call 1-800-8-BATTERY™ for information on Ni-Cd battery recycling and disposal bans/restrictions in your area. VTech's involvement in this program is part of its commitment to protecting our environment and conserving natural resources.

Remove the nickel-cadmium battery pack by pressing down on the battery case and sliding downward.

RBRC® is a registered trademark of Rechargeable Battery Recycling Corporation.

Technical Specifications

FREQUENCY CONTROL

Crystal controlled PLL synthesizer

TRANSMIT FREQUENCY

Base: 2410.2 - 2418.9 MHz Handset: 912.75 - 917.10 MHz

RECEIVE FREQUENCY

Base: 912.75 - 917.10 MHz Handset: 2410.2 - 2418.9 MHz

CHANNELS

30 Channels

NOMINAL EFFECTIVE RANGE

Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use.

SIZE

Handset:198.6mmx56.4mmx39mm Base: 185mm x 135mm x92mm Charger: 89.8mmx78mmx55mm

WEIGHT

Handset: 188 grams Base: 345 grams Charger: 106 grams

POWER REQUIREMENTS

Handset: 3.6V 400mAh Ni-Cd

Battery

Base: 9V DC @ 300mA Charger: 6V DC @ 200mA

MEMORY

Speed Dial: 9 Memory locations;

up to 24 digits, 15 characters per location

Directory: 30 Memory locations;

up to 24 digits, 15 characters per

location

CID: 50 Memory locations

SPECIFICATIONS ARETYPICAL AND MAY CHANGE WITHOUT NOTICE.

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